

BACTERIOLOGICAL REVIEWS

INDEX

to

Authors and Subjects

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- Ergosterol, growth-promoting activity of. Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- Eschericheae, classification of genera. Parr, L. W., 1939, 3, 12
- Escherichia*, classification of. Parr, L. W., 1939, 3, 1-48
- , relation to coliform group. Parr, L. W., 1939, 3, 1-48
- Esculin, hydrolysis by streptococci. Sherman, J. M., 1937, 1, 10
- Eubacteriales, outline classification of. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, 8, 255-260
- Eubacteriineae, suborder of Eubacteriales. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, 8, 257
- Exotoxin, production by staphylococci. Blair, J. E., 1939, 3, 97-110
- F**
- faecalis*, see *Streptococcus*
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- Fermentation, mechanism of. Werkman, C. H., 1939, 3, 201-209
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- Fibrin, action of streptococci on. Sherman, J. M., 1937, 1, 12
- Fibrinolysin, characterization of. Tillett, W. S., 1938, 2, 191-195
- production by staphylococci. Blair, J. E., 1939, 3, 115-116
- Fibrinolytic activity of hemolytic streptococci. Tillett, W. S., 2, 161-216
- Flagella, bacterial. Lewis, I. M., 1941, 5, 217-220
- Flagellar antigens, production by spore-forming anaerobic species. McCoy, E., and McClung, L. S., 1938, 2, 63-73
- foetidus*, see *Streptococcus*
- Folic acid, growth-promoting activity of. Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- Friedländer group, separation from other coliform bacteria. Parr, L. W., 1939, 3, 2-4
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- furcosus*, see *Bacteroides*
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- Genetics, yeast. Lindegren, C. C., 1945, 9, 111-170
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- Gliotoxin, properties of. Waksman, S. A., 1941, 5, 256, 264
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- Gramicidin, properties of. Waksman, S. A., 1941, 5, 264, 266
- Grinding, death of microorganisms by. Rahn, O., 1945, 9, 2-5
- Growth accessory factors, bacteriological assay for. Peterson, W. H., and Peterson, M. S., 1945, 9, 81-86
- — —, destruction of, by bacteria. Peterson, W. H., and Peterson, M. S., 1945, 9, 86
- — —, function of. Peterson, W. H., and Peterson, M. S., 1945, 9, 86-88
- — —, relation to bacterial nutrition. Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- — —, requirement of diphtheria bacillus. Mueller, J. H., 1940, 4, 120-123
- — —, synthesis by microorganisms. Peterson, W. H., and Peterson, M. S., 1945, 9, 71-76
- — —, see also vitamins and names of individual genera or species group
- Growth curve, see culture cycle
- Growth factors, see growth accessory factors
- H
- Hanseniaspora*, genus of Endomyctaceae. Henrici, A. T., 1941, 5, 138
- Hansenula*, genus of Endomycetaceae. Henrici, A. T., 1941, 5, 137
- Heartwater, rickettsiae of. Pinkerton, H., 1942, 6, 68-69
- Heat, moist, cause of death of microorganisms. Rahn, O., 1945, 9, 24-36
- Hematin (hemin), growth-promoting activity of. Koser, S. A., and Saunders, F., 1938, 2, 137; Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- Hemolysis by *Corynebacterium diphtheriae*. Morton, H. E., 1940, 4, 198-199
- hemolyticus*, see *Bacillus*
- Hemophilic bacteria, growth accessory factors for. Koser, S. A., and Saunders, F., 1938, 2, 113-115; Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- histolyticum, see *Clostridium*
- History, early American bacteriological. McClung, L. S., 1944, 8, 119-160
- Hyaluronidase, action as spreading factor in infection. Duran-Reynals, F., 1942, 6, 222-229
- Hybridization in yeasts. Lindegren, C. C., 1945, 9, 125-130
- Hydrocarbon oxidizing organisms, activities in soil. ZoBell, C. E., 1946, 10, 33-36
- — —, mineral requirements of. ZoBell, C. E., 1946, 10, 3-4
- — —, occurrence in nature. ZoBell, C. E., 1946, 10, 23-25
- utilization, criteria of. ZoBell, C. E., 1946, 10, 10-12
- — —, products of. ZoBell, C. E., 1946, 10, 12-15
- Hydrocarbons, action of microorganisms on. ZoBell, C. E., 1946, 10, 1-49
- , bacteriostatic action of. ZoBell, C. E., 1946, 10, 37-40
- , dispersion of, in culture media. ZoBell, C. E., 1946, 10, 7-10
- , effect of organic matter on metabolism of. ZoBell, C. E., 1946, 10, 6-7
- , — — oxygen tension on metabolism of. ZoBell, C. E., 1946, 10, 4-6
- , kinds attacked. ZoBell, C. E., 1946, 10, 15-23
- , rubber, action on. ZoBell, C. E., 1946, 10, 31-32
- , temperature requirements for microbial decomposition of. Zobell, C. E., 1946, 10, 7
- I
- Immunity in brucellosis. Huddleson, I. F., 1942, 6, 11-142
- Imvic reactions, use of in study of coliform organisms. Parr, L. W., 1939, 3, 9
- Idole acetic acid, growth-promoting activity of. Peterson, W. H., and Peterson, M. S., 1945, 9, 55
- Infection, mode of, by staphylococci. Blair, J. E., 1939, 3, 128-132
- , rôle of spreading factors in. Duran-Reynals, F., 1942, 6, 197-252

- innutritus*, see *Bacillus*
- Inositol, growth-promoting activity
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F., 1938, 2, 137-139; Peterson,
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- Insect transmission of rickettsiae.
Pinkerton, H., 1942, 6, 37-78
- Insects, microbiology of. Steinhaus,
E. A., 1940, 4, 17-57
- , rôle of microorganisms in nutrition
of. Steinhaus, E. A., 1940, 4,
27-36
- Invasiveness of bacteria. Duran-
Reynals, F., 1942, 6, 229-232
- Irradiation, agent of death of micro-
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8-14
- K
- Klebsiella*, classification of. Parr, L.
W., 1939, 3, 1-48
- , relation to coliform group. Parr,
L. W., 1939, 3, 1-48
- Kloeckera*, genus of Torulopsidoideae.
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- Kluyver-Dekker laws. Henrici, A. T.,
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- L
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- Lactobacilli, growth accessory factors
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- Lamb dysentery bacillus, see *Clostridium*
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- Lancefield technique for study of strep-
tococci. Sherman, J. M., 1937,
1, 13
- Leptotricha*, characters of. Rosebury,
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- Leucocidin, production by staphy-
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- liquefaciens*, see *Streptococcus*
- Lymphogranuloma venereum, inclusion
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- M
- Marine cytophagids, physiology of.
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- mastitidis*, see *Streptococcus*
- Meat, microbiological problems con-
cerning. Jensen, L. B., 1944,
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- technology, recent developments in.
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- Media for spore production in yeast.
Lindgren, C. C., 1945, 9, 132
- for toxin production. Eaton, M. D.,
1938, 2, 4-6
- melaninogenicum*, see *Bacterium*
- Meningococcus. Branham, S. E., 1940,
4, 59-96
- Metabolism, enzymes concerned in
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4, 135-176
- in early phase of culture cycle. Wins-
low, C.-E.A., and Walker, H. H.,
1939, 3, 159-164
- of cytophaga group. Stanier, R. Y.,
1942, 6, 143-196
- Methionine, relation to action of sul-
fonamides. Henry, R. J., 1943,
7, 213-214
- Methylene blue, inhibition of strep-
tococci by. Sherman, J. M.,
1937, 1, 9
- Microcyst formation by Cytophaga
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- Molds, growth accessory factors for.
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- Monosporrella*, genus of Endomycetaceae.
Henrici, A. T., 1941, 5, 137
- Morphology, changes in cell, in early
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A., and Walker, H. H., 1939, 3,
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- Mouth, Actinomycetes and other fila-
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Rosebury, T., 1944, 8, 189-223
- Mucor*, growth accessory factors for.
Koser, S. A., and Saunders, F.,
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- Murimyces*, genus of Anulomycetaceae.
Sabin, A. B., 1941, 5, 334
- , genus of Parasitaceae. Sabin, A. B.
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- Musculomyces*, genus of Anulomyce-
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- , genus of Parasitaceae. Sabin, A.
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- Mutations, of bacteriophage. Craigie, J., 1946, 10, 82
- Mycobacterium*, chemistry of proteins of. Seibert, F. B., 1941, 5, 69-95
- , growth accessory factors for. Koser, S. A., and Saunders, F., 1938, 2, 115-116; Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- Myohemoglobin*, action of bacteria on. Jensen, L. B., 1944, 8, 162-164
- Mycoderma*, genus of *Torulopsidoideae*. Henrici, A. T., 1941, 5, 144
- Myxobacteriae*, definition of class. Stanier, R. Y., 1942, 6, 184
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- Myxococcus*, inclusion in *Myxococcaceae*. Stanier, R. Y., 1942, 6, 188
- N
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- nebulosus*, see *Bacillus*
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- Neisseria intracellularis*. Branham, S. E., 1940, 4, 59-96
- Nematospora*, genus of *Endomycetaceae*. Henrici, A. T., 1941, 5, 137
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- Nicotinic acid and related compounds, growth-promoting activity of. Koser, S. A., and Saunders, F., 1938, 2, 143-144; Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- Nitrates, action on bacteria in cured meats. Jensen, L. B., 1944, 8, 170-174
- Nitrites, action on bacteria in cured meats. Jensen, L. B., 1944, 8, 173-175
- novyi*, see *Clostridium*
- Nucleic acid, presence in vaccinia virus. Smadel, J. E., and Hoagland, C. L., 1942, 6, 93-95
- Nucleus, bacterial. Lewis, I. M., 1941, 5, 192-208
- Nutrition, bacterial. Koser, S. A., and Saunders, F., 1938, 2, 99-160; Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- of cytophaga group. Stanier, R. Y., 1942, 6, 143-196
- of diphtheria bacillus. Mueller, J. H., 1940, 4, 97-134
- of non-sulfur purple and brown bacteria. van Niel, C. B., 1944, 8, 1-118
- O
- oedematiens*, see *Clostridium*
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- Oil deposits, microorganisms as indicators of. ZoBell, C. E., 1946, 10, 36-37
- Oleic acid, growth promoting activity of. Mueller, J. H., 1940, 4, 123; Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109.
- oritoxicus*, *Bacillus*, see *Clostridium welchii*
- Oxidation-reduction potential and toxin production. Eaton, M. D., 1938, 2, 6-8
- —, effect on sulfonamide action. Henry, R. J., 1943, 7, 199-200
- P
- PAB, see *p*-Aminobenzoic acid
- paludis*, *Bacillus*, see *Clostridium welchii*
- Pantothenic acid, growth-promoting activity of. Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- parabotulinum*, see *Clostridium*
- Paramycetales, outline of classification of. Sabin, A. B., 1941, 5, 56-59
- Paramycetes, new class distinct from Schizomycetes. Sabin, A. B., 1941, 5, 56
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- Parasitaceae, genera of. Sabin, A. B., 1941, 5, 57-58
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- Pathogenicity of coliform bacteria. Parr, L. W., 1939, 3, 13-20
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- Petroleum, microbial modification of.
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- Phage, *see* bacteriophage
- Phycomyces*, growth accessory factors for. Koser, S. A., and Saunders, F., 1938, 2, 127
- Physical methods of sterilization.
Rahn, O., 1945, 9, 1-47
- Physiological youth, phase in culture cycle. Winslow, C.-E. A., and Walker, H. H., 1939, 3, 158-176
- Physiology of cytophaga group. Stanier, R. Y., 1942, 6, 161-180
- of non-sulfur purple and brown bacteria. van Niel, C. B., 1944, 8, 1-118
- , recent advances in microbial. van Niel, C. B., 1944, 8, 225-234
- Pichia*, genus in Endomycetaceae. Henrici, A. T., 1941, 5, 138
- Pigments, production by non-sulfur purple and brown bacteria. van Niel, C. B., 1944, 8, 53-70
- Pimelic acid, growth-promoting activity of. Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109; Mueller, J. H., 1940, 4, 121
- Pityrosporum*, genus of Torulopsidoideae, Henrici, A. T., 1941, 5, 144
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- Pleuropneumonia group, characters and knowledge of. Sabin, A. B., 1941, 5, 1-65
- —, classification of. Sabin, A. B., 1941, 5, 56-59
- —, classification and nomenclature of. Sabin, A. B., 1941, 5, 331-335
- Pneumococcal polysaccharide (Type III), reaction with antibody. Heidelberger, M., 1939, 3, 52-60
- Pneumococcus, *see* *Diplococcus pneumoniae*
- pneumosintes*, *see* *Bacterium*
- Polyangiaceae, inclusion in Myxobacte- riae. Stanier, R. Y., 1942, 6, 187
- Postassium tellurite, reduction by *Corynebacterium diphtheriae*. Morton, H. E., 1940, 4, 203-205.
- Precipitation reaction, application to anaerobic species. McCoy, E., and McClung, L. S., 1938, 2, 73-74
- Precipitin reaction, quantitative study of. Heidelberger, M., 1939, 3, 52-63
- —, *see* names of individual species
- Pressure, death of microorganisms caused by. Rahn, O., 1945, 9, 5-7
- Propionic acid bacteria, growth ac- cessory factors for. Koser, S. A., and Saunders, F., 1938, 2, 117-118; Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- Protozoa, action of sulfonamides on. Henry, R. J., 1943, 7, 179
- , growth accessory factors for. Koser, S. A., and Saunders, F., 1938, 2, 130
- , significance in rumen of bovine. Hastings, E. G., 1944, 8, 235-254
- Psittacosis, elementary bodies of, re- lation to rickettsiae. Pinkerton, H., 1942, 6, 43
- Purines, growth-promoting activity of. Peterson, W. H., and Peterson, M. S., 1945, 9, 49-109
- Purple bacteria, non-sulfur, study and classification of. van Niel, C. B., 1944, 8, 1-118
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- Pyocyanase, properties of. Waksman, S. A., 1941, 5, 264
- Pyocyanin, properties of. Waksman, S. A., 1941, 5, 264
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- Pyrimidines, growth-promoting activity of. Peterson, W. H., and Peter- son, M. S., 1945, 9, 49-109
- Q
- Q-fever, rickettsiae of. Pinkerton, H., 1942, 6, 70-71
- Quantitative methods, use of in study of antigen-antibody reactions. Heidelberger, M., 1939, 3, 49-95
- R
- ramosus*, *see* *Bacillus*
- Receptor analysis, application to anaer- obic species. McCoy, E., and McClung, L. S., 1938, 2, 63-73
- Reproductive structures, bacterial. Lewis, I. M., 1941, 5, 208-213

- Respiration, bacterial.** Werkman, C. H., 1939, **8**, 209-221
- Rhizobium**, growth accessory factors for. Koser, S. A., and Saunders, F., 1938, **2**, 120
- Rhizopus**, growth accessory factors for. Koser, S. A., and Saunders, F., 1938, **2**, 127
- Rhodobacillus**, genus of Athiorhodaceae. van Niel, C. B., 1944, **8**, 83
- Rhodobacterineae**, suborder of Eu-bacteriales. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, **8**, 257
- Rhodobacterium**, genus of Athiorhodaceae. van Niel, C. B., 1944, **8**, 82
- Rhodococcus**, genus of Athiorhodaceae. van Niel, C. B., 1944, **8**, 82
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- Rhodonostoc**, genus of Athiorhodaceae. van Niel, C. B., 1944, **8**, 82
- Rhodopseudomonas capsulatus**. van Niel C. B., 1944, **8**, 92-95
- , characters of genus. van Niel, C. B., 1944, **8**, 86
- *gelatinosa*. van Niel, C. B., 1944, **8**, 98-101
- , key for species of. van Niel, C. B., 1944, **8**, 111
- *palustris*. van Niel, C. B., 1944, **8**, 89-92
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- Rhodospirillum**, characters of genus. van Niel, C. B., 1944, **8**, 86
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- Riboflavin**, growth-promoting activity of. Koser, S. A., and Saunders, F., 1938, **2**, 142; Peterson, W. H., and Peterson, M. S., 1945, **9**, 49-109
- Rickettsia bovis**. Pinkerton, H., 1942, **6**, 72
- *burneti*. Pinkerton, H., 1942, **6**, 70-71
- *canis*. Pinkerton, H., 1942, **6**, 71
- *dipora*. Pinkerton, H., 1942, **6**, 70-71
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- *provazekii*. Pinkerton, H., 1942, **6**, 45-68
- *ruminantium*. Pinkerton, H., 1942, **6**, 68-69
- *tsutsugamuchi*. Pinkerton, H., 1942, **6**, 66-68
- *wolhynica*. Pinkerton, H., 1942, **6**, 69-70
- Rickettsiaceae**, inclusion in classification of bacteria. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, **8**, 258
- Rickettsiae**, characterization and classification. Pinkerton, H., 1942, **6**, 37-78
- , non-pathogenic. Pinkerton, H., 1942, **6**, 39-40
- roseum*, see *Clostridium*
- Rubber hydrocarbons**, see hydrocarbons, rubber
- Rumen**, bovine, significance of bacteria and protozoa in. Hastings, E. G., 1944, **8**, 235-254
- S**
- Saccharomyces**, key to species of. Henrici, A. T., 1941, **5**, 139-141
- Saccharomycodes**, genus of Endomyctaceae. Henrici, A. T., 1941, **5**, 138
- salivarius*, see *Streptococcus*
- Salivary calculus**, bacteriology of. Rosebury, T., 1944, **8**, 210-216
- Sapromyces**, genus of Sapromycetaceae. Sabin, A. B., 1941, **5**, 334
- Schizoblastosporion**, genus of Torulopsididae. Henrici, A. T., 1941, **5**, 144
- Schizomycetes**, class of fission fungi. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, **8**, 257
- Schizophyceae**, class of fission algae. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, **8**, 257
- Schizophyta**, outline of classification. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, **8**, 257
- Schizosaccharomyces**, genus of Endomycetaceae. Henrici, A. T., 1941, **5**, 137
- Schwanniomyces**, genus of Endomyctaceae. Henrici, A. T., 1941, **5**, 138
- septicum*, see *Clostridium*

- Serology of coliform group. Parr, L. W., 1939, **3**, 31-33
- of *Corynebacterium diphtheriae*. Morton, H. E., 1940, **4**, 196-198
 - of *Vibrio*. Linton, R. W., 1940, **4**, 261-319
 - serpens*, see *Bacteroides*
 - Shigella alkalescens*. Neter, E., 1942, **6**, 8-12
 - *bienstockii*. Neter, E., 1942, **6**, 21
 - *ceylonensis* B. Neter, E., 1942, **6**, 25-26
 - , characterization and classification of genus. Neter, E., 1942, **6**, 1-36
 - *dysenteriae*. Neter, E., 1942, **6**, 8-12
 - *equirulis*. Neter, E., 1942, **6**, 24-25
 - *gallinarum*. Neter, E., 1942, **6**, 19
 - *gintottensis*. Neter, E., 1942, **6**, 20
 - *madampensis*. Neter, E., 1942, **6**, 25-26
 - , Newcastle type. Neter, E., 1942, **6**, 13
 - *oxygenes*. Neter, E., 1942, **6**, 21
 - *paradysenteriae*. Neter, E., 1942, **6**, 13-18
 - *pfaaffi*. Neter, E., 1942, **6**, 19-20
 - *rettgeri*. Neter, E., 1942, **6**, 20
 - *schmitzii*. Neter, E., 1942, **6**, 12
 - *septicaemia*. Neter, E., 1942, **6**, 12-13
 - *sonnei*. Neter, E., 1942, **6**, 21
 - Sodium chloride, action on bacteria in meats. Jensen, L. B., 1944, **8**, 175-180
 - —, effect on bacterial activity in butter. Hammer, B. W., and Long, H. F., 1941, **5**, 337-374
 - Somatic antigens, production by anaerobic species. McCoy, E., and McClung, L. S., 1938, **2**, 63-73
 - Sonic and supersonic waves, as agents of death of microorganisms. Rahn, O., 1945, **9**, 7-8
 - Sorangiaceae, inclusion in Myxobacteriae. Stanier, R. Y., 1942, **6**, 187
 - sordelli*, *Bacillus*, see *Clostridium oedematooides*
 - Spirillum rubrum*, synonymy with *Rhodospirillum rubrum*. van Niel, C. B., 1944, **8**, 101
 - Spirochaetales, outline classification of. Breed, R. S., Murray, E. G. D., and Hitchens, A. P., 1944, **8**, 257
 - Sporocytophaga*, inclusion in Myxococceae. Stanier, R. Y., 1942, **6**, 188
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 - Sporulation in yeasts. Henrici, A. T., 1941, **5**, 127-130; Lindegren, C. C., 1945, **9**, 131-133
 - sporogenes*, see *Clostridium*
 - "Sporogenes vitamin", growth-promoting activity of. Peterson, W. H., and Peterson, M. S., 1945, **9**, 49-109
 - Spotted fevers, rickettsiae of. Pinkerton, H., 1942, **6**, 58-66
 - Spreading factors, rôle in infection. Duran-Reynals, F., 1942, **6**, 197-252
 - Staphylococci, agglutination of. Blair, J. E., 1939, **3**, 125-126
 - , differentiation between pathogenic and non-pathogenic types. Blair, J. E., 1939, **3**, 121-125
 - , fibrinolytic activity of. Tillett, W. S., 1938, **2**, 181-183
 - , growth accessory factors for. Koser, S. A., and Saunders, F., 1938, **2**, 106-108; Peterson, W. H., and Peterson, M. S., 1945, **9**, 49-109
 - , mode of infection by. Blair, J. E., 1939, **3**, 128-132
 - , pathogenic. Blair, J. E., 1939, **3**, 128-132
 - , use of precipitin reaction in study of. Blair, J. E., 1939, **3**, 126-128
 - Staphylococcus parvulus*. Dack, G. M., 1940, **4**, 230, 231
 - Starch, hydrolysis by streptococci. Sherman, J. M., 1937, **1**, 11
 - Statistical methods, use of, in bacteriology. Eisenhart, C., and Wilson, P. W., 1943, **7**, 57-137
 - Sterilization, physical methods of. Rahn, O., 1945, **9**, 1-47
 - , see death of microorganisms
 - Stickland reaction. Gale, E. F., 1940, **4**, 148
 - Strepogenin, growth-promoting activity of. Peterson, W. H. and Peterson, M. S., 1945, **9**, 49-109
 - Streptobacillus moniliformis*, relation to pleuropneumonia group. Sabin, A. B., 1941, **5**, 35-39

- Streptococci. Sherman, J. M., 1937, 1, 3-97
 —, "animal pyogenes". Sherman, J. M., 1937, 1, 33-35
 —, fibrinolytic activity of. Tillett, W. S., 1938, 2, 161-216
 —, flagellation of. Sherman, J. M., 1937, 1, 14
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- , — nutrition of microorganisms. Koser, S. A., and Saunders, F., 1938, **2**, 99-160
- , structural specificity of compounds in relation to activity. Peterson, W. H., and Peterson, M. S., 1945, **9**, 71-76
- , synthesis by microorganisms. Peterson, W. H., and Peterson, M. S., 1945, **9**, 76-80
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